

C. F. KING.

Augers.

No. 158,090.

Patented Dec. 22, 1874.

fig. 1

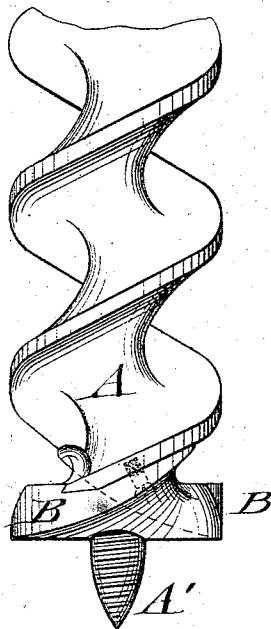


fig. 4

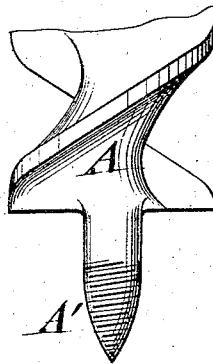


fig. 5.

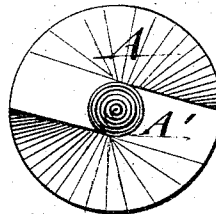


fig. 2.

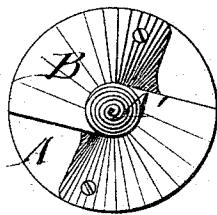
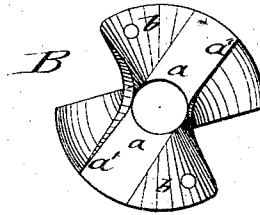


fig. 3



WITNESSES:

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UNITED STATES PATENT OFFICE.

CHARLES F. KING, OF COVINGTON, PENNSYLVANIA.

IMPROVEMENT IN AUGERS.

Specification forming part of Letters Patent No. **158,090**, dated December 22, 1874; application filed May 23, 1874.

To all whom it may concern:

Be it known that I, CHARLES F. KING, of Covington, Tioga county, Pennsylvania, have invented a new Improvement in Augers, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a side view of my improved auger with detachable cutter, and Fig. 2 a bottom view of the same; Fig. 3, a top view of the cutter-head detached, and Figs. 4 and 5 side and bottom views of auger with detachable cutter taken off.

Similar letters of reference indicate corresponding parts.

The object of my invention is to provide an improved auger with detachable cutter-head, for being readily replaced when injured without requiring a new auger, and allowing the use of the auger with cutters of various sizes.

My invention consists of an auger with detachable cutter-head placed over the screw-point, and connected by grooves with dovetailed side recesses, fastening the screws to the lips of the auger.

A in the drawing represents an auger made in one piece with the screw-points A' thereof. The detachable cutter B is provided with a

central perforation to be slipped over the screw, and with twisted and tapering blades fitting exactly the shape of the lips of the auger-shank. The upper part of the cutter B has a central groove, *a*, with dovetailed recesses *a'* at diametrically-opposite sides, for engaging the edges of the auger-lips. Each blade of the cutter B has one or more perforations, *b*, which correspond with connecting-holes of the auger, for riveting or screwing the cutter-head firmly thereon.

The cutter may be readily applied and detached, saving thereby the expense for a new auger when any part of the cutter-blades gets injured, and allow, also, the attachment of larger sizes for boring larger holes, if required.

Having thus described my invention, I claim as new, and desire to secure by Letters Patent—

An auger having a detachable cutter-head connected thereto by dovetail recesses and screws, as shown and described.

CHARLES F. KING.

Witnesses:

DAVID A. GRAVES,
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